

Secretary
Expendable Budget
Application For Research Grant

Overhead
Other

#33 R1,000 per annum

Date: Total

December 8, 1955

1. Name of Investigator: Work

- a) Marion B. Sulzberger, M.D.
b) Will Cook Spain, M.D.

2. Title:

- c) Rosa Lee Nemir, M.D. and her staff and selected staff of the
d) Vincent J. Fontana, M.D. in the Cancer Unit, New York University
a) Professor & Chairman, Dept. of Dermatology & Syphilology, New York University,
Post-Graduate School Medical, Director, N. Y. Skin and Cancer Unit; b) Prof. of
Clinical Medicine, Director of Allergy Section; c) Prof. of Pediatrics
d) Instructor in Clinical Pediatrics

New York University - Bellevue Medical Center
550 First Avenue, New York 16, N.Y.

Investigation of the effects of tobacco on the human vascular system in living volunteers; and in particular of the possibility that certain tobacco effects are based on peculiar allergic susceptibility of specific individuals rather than upon obligatorily toxic products in tobacco smoke.

5. Detailed Plan of Procedure (Use reverse side if additional space is needed):

studies on the effects of smoking upon the temperature. Previous studies by the first-named Applicant (see attached reprints) and by others have shown that extracts of cigarette and other tobacco are capable of producing urticarial reactions in a certain percentage of human beings - and that the incidence of these reactions is higher in certain groups of subjects. The first group (I) consists of patients with thrombo-angitis obliterans; the second group (II) consists of patients with other cardiovascular diseases sometimes associated with smoking; the third group (III) consists of heavy smokers.

It has also been demonstrated that a significant drop in temperature of the digits during cigarette smoking is demonstrable in about 30% of the subjects treated. (Reddish) This figure of approximately 30% corresponds to the approximately 30% of smokers found to react with urticarial reactions to skin tests with tobacco-but it is not known whether it is the same 30%-i.e. whether those subjects with significant falls in temperature are also those with the urticarial skin responses.

It is planned to carry out the following critical experiments to establish whether or not specific allergic sensitization plays a basic role in vascular reactions to tobacco smoking:

- a) Infants and children will be skin tested with tobacco extracts from various brands of cigarettes, and from various types of uncured tobacco, to ascertain whether the incidence of positive reactions increases with age or is related to exposure to tobacco (families of smokers and non-smokers, etc.)

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Sponsor's Office of the Institution

6. Budget Plan:

Salaries	\$10,000 per annum
Expendable Supplies	500 "
Applicable Permanent Equipment	1,500 "
Overhead	2,500 "
Other	500 "
Total	\$15,000

December 8, 1955

7. Anticipated Duration of Work:

Dr. Marion B. Sulzberger, M.D.
Two Years.

8. Facilities and Staff Available:

Complete facilities and patients and selected staff of the Departments specified above at the New York Skin and Cancer Unit, University Hospital, Bellevue Hospital, Gouverneur Hospital, and other teaching services of New York University-Bellevue Medical Center. Dr. Spain, M.D., Prof. of Clinical Medicine, Director of Allergy Service, Prof. of Pediatrics, Instructor in Clinical Pediatrics.

University - Bellevue Medical Center
350 First Avenue, New York 16, N.Y.

9. Additional Requirements:

Investigation of the effects of tobacco on the human vascular system. Supply of pure tobacco of different types and origin, cigarette tobacco of different brands, peculiar allergic susceptibility of specific individuals rather than upon obligatorily toxic products in tobacco smoke.

10. Additional Information (including relation of work to other projects and other sources of supply):

The most modern studies on the effects of smoking upon the temperature of the extremities have been carried out in this Medical Center by Walter Reddish, M.D. (Goldwater Memorial Hospital). Dr. Reddish's experience with apparatus and techniques, advice and guidance should prove invaluable in that part of the study relating to temperature effects. Dr. Spain's experience and the facilities of his staff (Dr. Vincent J. Fontana) and laboratories (Miss Margaret Strauss) should prove invaluable in the preparation and control of the tobacco extracts and skin testing.

The experience and clinical material of Dr. Nemir and the Department of the Digestive Pediatrics (Dr. Adolf G. DeSanctis) and the help of the Biostatistical Department (Dr. Donald Mainland) should also be of the very greatest value in the design and execution of the study and the evaluation of the results. It is not known whether it is the same or not, i.e. whether those subjects with significant falls in temperature are also those with the vertical skin responses.

It is planned to carry out the following critical experiments to establish whether or not specific allergic sensitization plays a basic role in vascular reactions to tobacco smoking:

a) Infants and children will be skin tested with tobacco extracts from various brands of cigarettes, and from various sources of tobacco. To ascertain whether the incidence of positive reactions is greater in certain groups of subjects, tobacco (families of smokers and non-smokers, etc.)

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Business Officer of the Institution